import java.util.Random;

import java.util.Scanner;

public class RandomNumGame {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

int round = 1;

int totalScore = 0;

String playAgain;

do {

int attempt = 5; // limit of attempts

int score = 100; // starting score for each round

Random random = new Random();

int randomNumber = random.nextInt(100) + 1;

System.out.println("Round " + round + ":");

// for testing purposes

// System.out.println("Generated Number: " + randomNumber);

while (attempt > 0) {

System.out.println("Enter your guess (1 to 100): ");

int userNum = sc.nextInt();

attempt--;

if (userNum == randomNumber) {

System.out.println("Congrats! You guessed correctly! Your score: " + score);

totalScore += score;

break;

} else if (userNum < randomNumber) {

System.out.println("Too low! Try again. Attempts left: " + attempt);

} else {

System.out.println("Too high! Try again. Attempts left: " + attempt);

}

score -= 15; // reduce score for each wrong guess

}

if (attempt == 0) {

System.out.println("Sorry, you're out of attempts. The number was: " + randomNumber);

}

System.out.println("Your total score so far: " + totalScore);

System.out.println("Do you want to play another round? : ");

playAgain = sc.next();

if (playAgain.equalsIgnoreCase("yes")) {

round++;

}

else{break;}

} while (playAgain.equalsIgnoreCase("yes"));

System.out.println("Game over! Your final score: " + totalScore);

}

}

**package** codesoft2;

**import** java.util.Scanner;

**public** **class** GradeCard {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

**int** marks; **float** sum=0;

Scanner sc= **new** Scanner(System.***in***);

System.***out***.println("enter the num of courses:");

**int** numCourses=sc.nextInt();

**for**(**int** i=1;i<=numCourses;i++) {

System.***out***.println("enter your marks of course"+i);

marks=sc.nextInt();

sum=sum+marks;

}

System.***out***.println("Total Marks: " + sum);

**float** percentage = sum / numCourses;

System.***out***.println("Average Percentage: " + percentage + "%");

**if** (percentage >= 98) {

System.***out***.println("Grade: Outstanding");

} **else** **if** (percentage >= 90) {

System.***out***.println("Grade: A+");

} **else** **if** (percentage >= 85) {

System.***out***.println("Grade: A");

} **else** **if** (percentage >= 75) {

System.***out***.println("Grade: B+");

} **else** **if** (percentage >= 69) {

System.***out***.println("Grade: B");

} **else** **if** (percentage >= 45) {

System.***out***.println("Grade: C");

} **else** {

System.***out***.println("Grade: F");

}

sc.close();

}

}